3/130/60/000/04/04/006

AUTHOR:

Chief of Rolling Department

TITLE:

Rolling of High-Speed Cutting Steel into Square Profiles

PERIODICAL:

Metallurg, 1960, No. 4, pp. 30 - 31

Steel for high-speed cutting belongs to steels with a narrow plasticity range. To obtain squares of an accurate shape without fissures along the edge an adequate assortment of gages and a proper rolling method is of great importance. In the article various technologies of rolling, as developed by Elektrostal' Plant are described. These have resulted in the desired improvement of the products but on the other hand also in the reduction of the productivity of the mill in increased loss of metal in the form of scale and increased thickness of decarbonized layer. These drawbacks have been eliminated by a new technology developed by the workmen of the Plant, which consists of a combined rolling system providing for the following successive profiles: rhomb - rhomb - oval- circle - rhomb - rhomb, as shown in the Diagram; the finished profile on the final line provides for rhombsquare. This system works satisfactorily due to the fact that the oval and round gages bring about a shift of the fast cooling edges formed by the previous rhomb

Card 1/2

Rolling of High-Speed Cutting Steel into Square Profiles

gages, first in the directions of the oval and then by the circumference of the circular gage, with the result that in the following rhomb gage the edges are formed in new places. The new technology does away with intermediate heating, while maintaining the same number of passes. The edges of the final square profile are clean-cut and free from any cracks and fissures. There is I diagram.

ASSOCIATION: Zavod Elektrostal' (Elektrostal' Flant)

SOV/130-58-11-11/16

AUTHOR: Zuyev, P.P.

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Reducing Rejects Due to Hardening Cracks (Snizheniye

TITLE: Reducing Rejects Due to hardening braka po zakalochnym treshchinam)

PERIODICAL: Metallurg, 1958, Nr 11, pp 34 - 37 (USSR)

ABSTRACT: Steels produced at the "Elektrostal" " works include many of the pearlite-martensite and martensite classes (eg. 3khl3, 4khl3, R9, R18, I 347, KhVG, Khl0S2M, Kh9S2, Khl2, Kh12M) and tend to form cracks (Fig. 1), on rapid cooling kh12M) and tend to form cracks (Fig. 1), on rapid cooling in the rolled state. For slow cooling from 700-900°C the metal is placed in insulated containers some of which are oil fired and others not fired (Fig. 2). Analysis of rejects due to cracks showed that the main sources were R9 and R18 coiled steels cooled in the fired pits and rods of 3khl3, 4khl3 and khl0S2M steels cooled in the unfired ones, the cause being insufficient slowness of cooling. The author describes the former fired-pit practice. Tests with 9 mm rounds of R9 steel showed that in the middle and bottom parts cooling rates were rapid: extra burners and a flue were provided and the practice was

Card 1/2 modified to raise the temperature before charging to over 8500C (instead of 600), the temperature on charging being

Reducing Rejects due to Hardening Cracks SOV/130-58-11-11/16

7000C (metal at over 500) and soaking being carried out for three hours at 8000C. The adoption of these measures completely eliminated cracks in R9 and R18 coiled steels. For the unfired pits 0-55 mm square or round bars of these steels are now charged at over 6500C, cooled for over 24 hours and discharged at a temperature below 100°C; they are transported to the heat treatment shop not more than 12 hours after unloading and are charged into the heat-treatment furnace not over 16-24 hours later. Special procedures are adopted for rolled products of the 600 mill and for 3 Kh13 - 4Kh13 steels intended for rolling in a light section mill.

There are 2 figures.

ASSOCIATION: Zavod "Elektrostal'" ("Elektrostal'" Works)

Card 2/2

S/182/60/000/002/010/012 A161/A029

AUTHOR:

Zuyev, R.N.

TITLE:

Compound Dies With Unkeying Devices

PERIODICAL: Kuznechno-shtampovochnoye proizvodstvo, 1960, No. 2, pp. 40 - 42

Design and operation of three compound dies used at Gor'kovskiy avtomobil'nyy zavod (Gor'kiy Automobile Plant) are described in detail and illustrated by detailed drawings. The dies are of the consecutive-operation type, in which the operations are performed in sequence in the vertical plane (instead of the horizontal plane) and have two independent work sections (in the upper or in the bottom plate) one of which performs the operation whilst the other is keyed. Both operations are performed during the down-stroke of the plunger. The unkeying of the second section is forced and the keys are returned by springs into the keying position during the return plunger stroke. Some parts can be produced in a single die. The first of the three dies described is a blanking die (Fig. 1) for wasteless stamping of plates with chamfered angles. It has eliminated burrs which were formerly caused by inaccurate feed of metal strip and cocking in the second die groove. The second is a die for tucking in flanges, i.e.,

Card 1/2

Compound Dies With Unkeying Devices

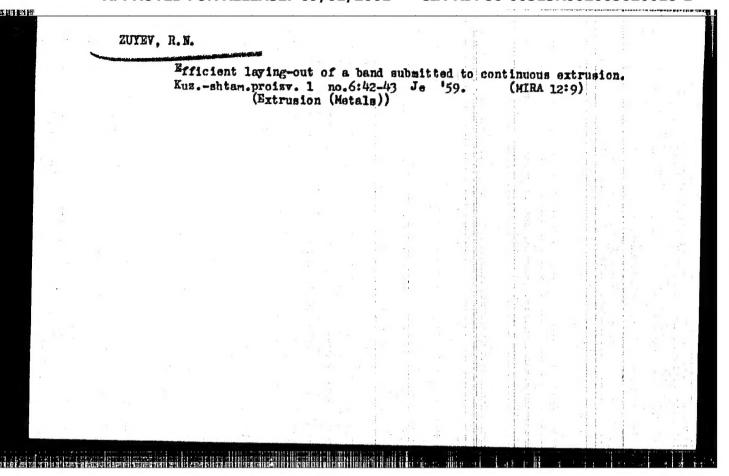
S/182/60/000/002/010/012 A161/A029

and the state of t

bending the flange edge 90° from the vertical into horizontal position (Fig. 2). It is used for making part flanges rigid, and in assembly (e.g., of the inner and outer automobile door panels). Tucking-in is possible on straight, as well in different purpose dies: 1) For punching holes in flanges on an extruded cup or a bent bracket; 2) for shaping a cavity and punching a hole in it (without number of other operations. Figure 3 illustrates the application to extruding a be concentrical and the concentricity error must not exceed 0.1 mm. The keying sides, to eliminate slanting of the ejector ("3" in the drawing). There are 3

Card 2/2

THE PARTY



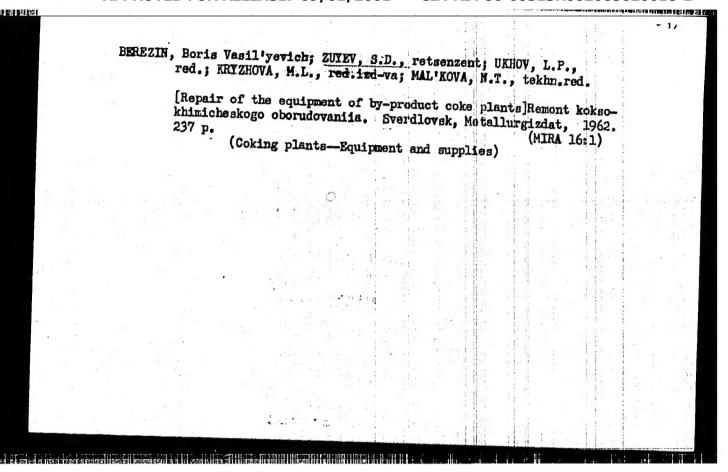
MOGENDOVICH, M.R., prof., red.; ZUYEV, R.V., red.; GETKHMAN, K.L., red.

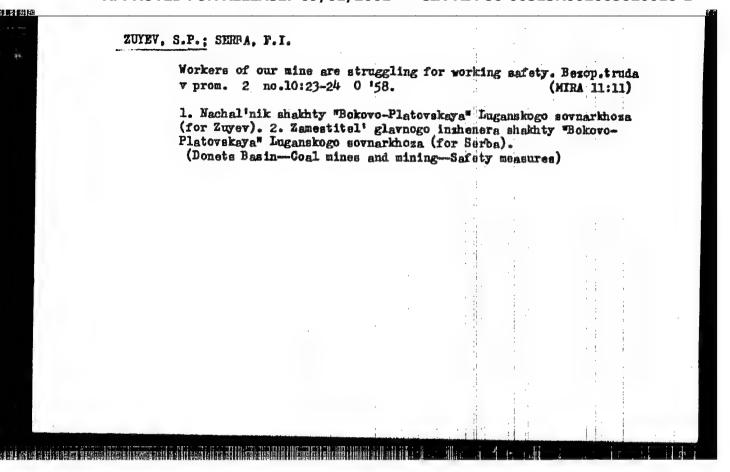
[Materials of the First Scientific and Practical Conference on Physical Education, Sports, Medical Inspection, and Exercise Therapy] Materially Pervoi mauchno-prakticheskoi konferentsii po fiziobaskomal vospitaniiu, sportu, vrachebnomal kontroliu i lachabnoi fizicheskoi kulture. Permi, Parmskoe otd-enie Vses. nauchno-med. ob-va po vrachebnomu kontroliu i lachabnoi fizicheskoi kulture, 1963. 78 p.

(MIRA 17:7)

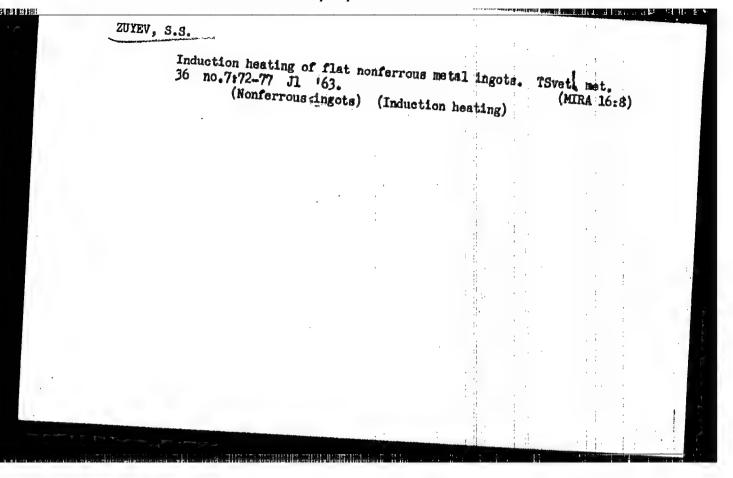
1. Nauchno-prakticheskaya konferentsiya po fizicheskomu vospitaniyu, sportu, vrachebnomu kontrolyu i lachabnoy fizicheskoy kulture, lst, 1963. 2. Glavny vrach Permskogo oblastnogo vrachabno-fizkulturnogo dispansera (for Geykhman). 3. Permskiy meditsinskiy institut (for Mogendovich).

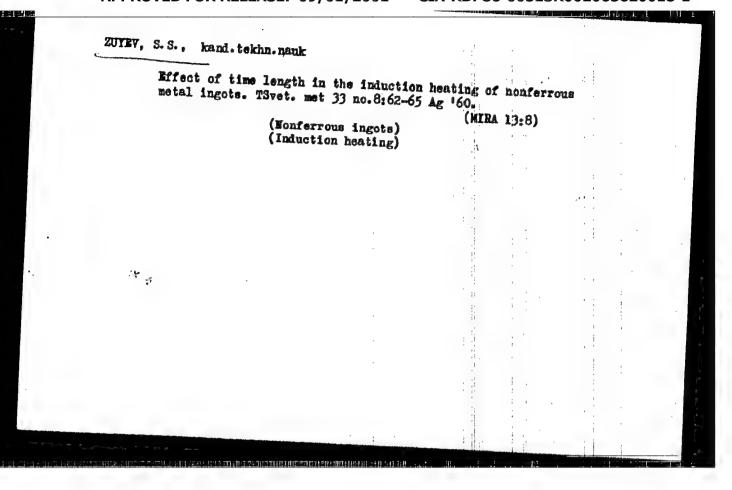
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ZUYEV, S. S., Cand Tech Sci (diss) -- "A study of heating time of nonferrous metals with heat evolved in them by induction". Mascow, 1960. 12 pp (Min Higher and Inter Spec Educ RSFSR, Inst of Nonferrous Metals in M. I. Kalinin), 150 copies (KL, No 10, 1960, 130)





ZUYEV, S.S.

137-58-5-10046

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 5, p 166 (USSR)

, AUTHORS: Berman, S.I., Krapukhin, V.V., Zuyev, S.S.

TITLE: Continuous Sequence Anneal of Nonferrous Semifabricated Products by High-frequency Current (Nepreryvno-posledovatel nyy

otzhig polufabrikatov iz tsvetnykh metallov tokami vysokov chastotv)

PERIODICAL: Byul. tsvetn. metallurgii, 1957, Nr 9, pp 25-29

ABSTRACT: Experiments in the HF anneal (A) of wire, rod, and tubing of nonferrous metals and alloys were conducted under laboratory and shop conditions. HF A was conducted with L62, Cu, manganin, Ni, chromel, and other alloy wires. The equipment, the ductors (I) used for heating, and the treatment procedure are described. Uniform heating of the wire was attained in an I in the form of two parallel Cu tubes of 8 mm diameter, or with elliptical Cu tubing. The wire goes into the I at controlled speed, so that the individual pieces do not touch each other. The length of time the wire spent in the I varied between 1.72 and 24 are

of time the wire spent in the I varied between 1.72 and 24 sec, depending on diameter and composition. In all instances, the mechanical properties of the wire met standard requirements

137-58-5-10046

A. B.

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Continuous Sequence Anneal (cont.)

after HF A. The microstructure of longitudinal and cross sections of the wire was uniform, grain size being 10-12 microns. Continuous sequence heating of brass and Cu rods was performed on an equipment for case-hardening of rolls, with a 2000-kc current. Tubes were A in a pilot-plant setup, the generator of which produced a 2650-cps current. A roller conveyor with driven rollers was adapted to transport the tubes through the I. The experiments showed that HF anneal necessitates heating the tubes to a higher temperature than that rejis to 650-760°C, while for Ni it is 850+950°C. Oxidation of the surface and loss of metal in HF annealing of brass and Ni tubing is negligible.

1. High frequency heating--Applications 2. Metals--Heat treatment

Card 2/2

THE PARTY AND

ZUYEV, S.S., kand. toh'. nauk; KRASNOV, P.V., inzh.; 3CHASTLIVTSEV,
N.S., inzh.; SHIKHLEYEV, A.I., inzh.

Radio frequency walding of nonferrous metal pipe. Avtom. svar.
17 no.11:78-81 N '64 (MTRA 18:1)

1. Gosudarstvany nauchno-issledovatel'skiy i proyektnyy institut splavov i obrabotki tsvetnykh metallov (for Zuyev).
Schastlivtsev, Shikhaleyev).

Schastlivtsev, Shikhaleyev).

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8/136/60/000/08/004/008 E193/E183

18.7100

Zuyev, S.S. (Candidate of Technical Sciences)

AUTHOR: TITLE:

Influence of the Duration of the Heating Cycle in

bInduction Heating of Non-Ferrous Ingots

PERIODICAL: Isvetnyye metally, 1960, No 8, pp 62-65

Short duration of the heating cycle is one of the main advantages of induction heating when applied for pre-heating ingots prior to hot-working operations. However, the extent to which the rate of induction heating can be increased is limited by the maximum permissible temperature difference between the surface and the interior of the billet, both during the actual heating and at the moment at which the hot-working operation begins. The present author discusses various theoretical formulae for calculations of the heating cycle, derives several semi-empirical formulae for brass L62 and nickel, and proposes the following method of calculating various parameters of the induction heating process for the equipment operating at a frequency of 2650-2500 cycles/sec: 1) The permissible temperature difference, int, between the surface of the ingot and its interior is calculated from the equation Card 1/3

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APPROVED FOR RELEASE: 09/01/2001

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E193/E183

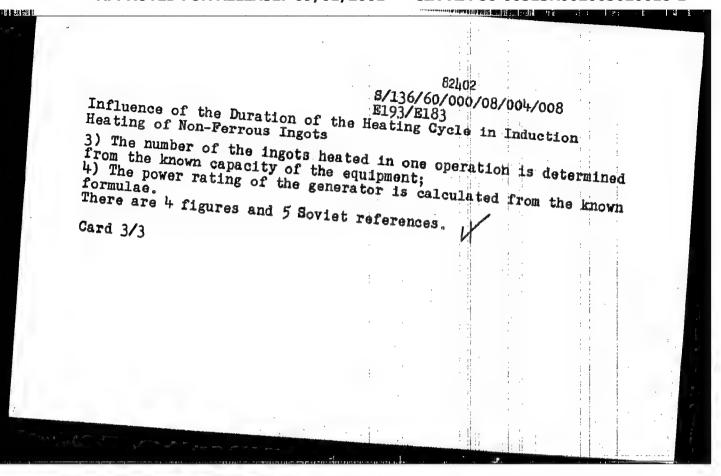
Influence of the Duration of the Heating Cycle in Induction Heating of Non-Ferrous Ingots

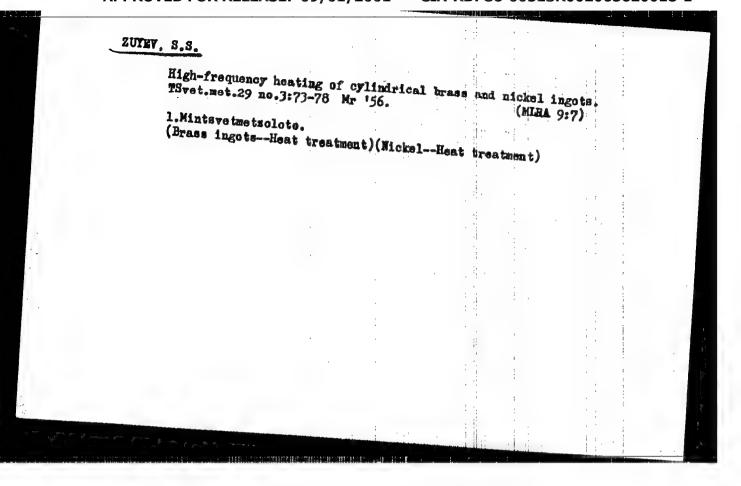
$$\approx_{\rm B} = 0.25 d_{\rm c} \sqrt{\Delta t}$$
, sec (for brass) or

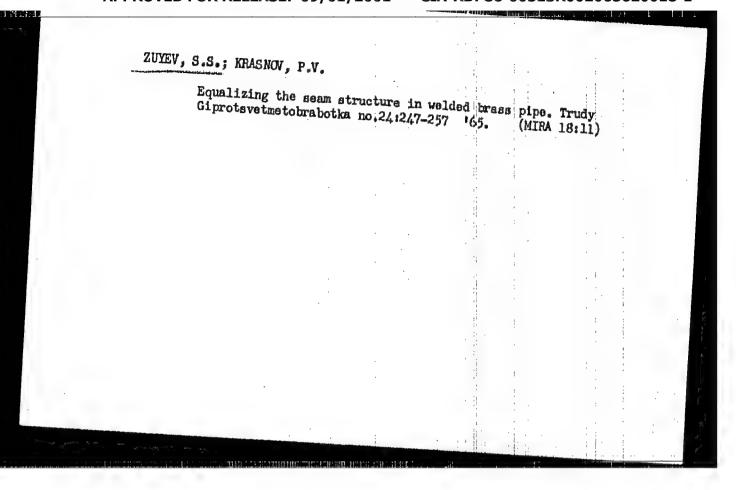
$$z_B = (d_c - 2) \Delta t^{0.3}$$
, sec (for mickel),

where TB is the time interval (sec) between the removal of the ingot from the induction coil and the start of the working operation, and do is the diameter (cm) of the ingot; 2) The minimum induction heating time, 7n, is then calculated from the formula

where λ is the heat conductivity coefficient (cal/cm sec °C), c is the specific heat (cal/g °C), γ is the specific gravity (g/cm³), and $t_n = t_p - \frac{1}{2} L t$, t_p denoting the maximum temperature of the ingot surface; Card 2/3

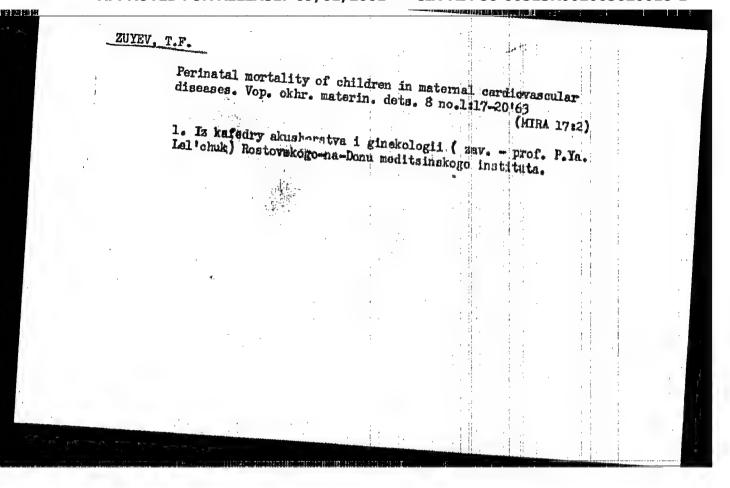


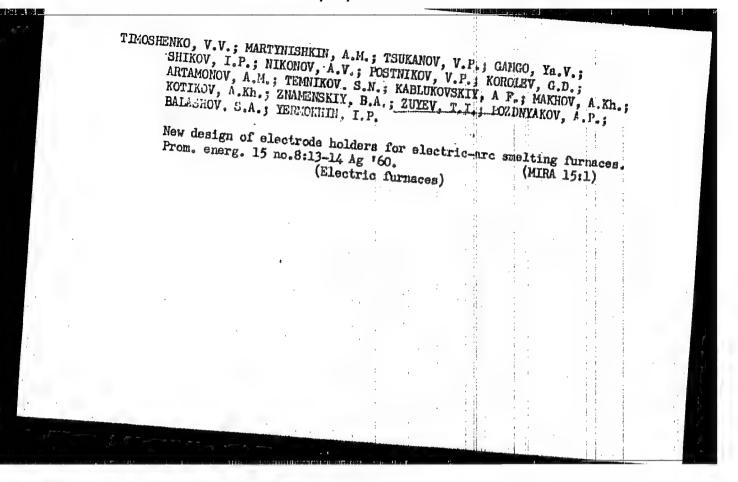


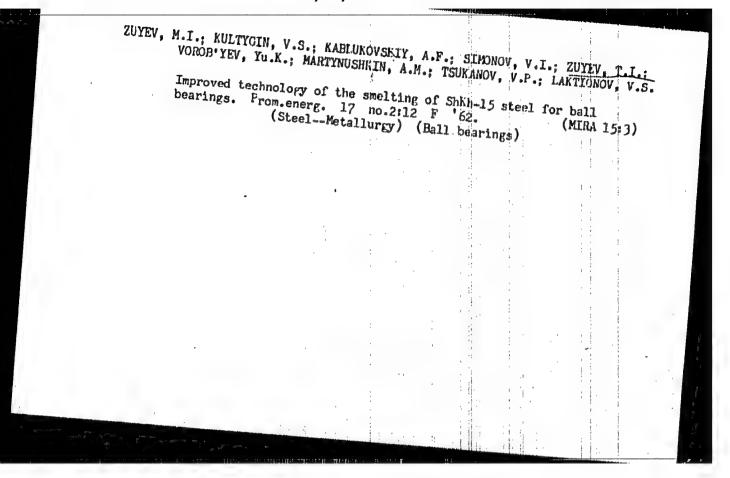


"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R002065620018-1







3/130/60/000/009 A006/A002

AUTHORS:

Kablukovskiy, A.F., Simonov, V.I., Zuyev, T.I., Vorob'yev, Yu.K.

TITLE:

Intensified Melting in Arc Furnaces

PERIODICAL:

Metallurg, 1960, No. 9, pp. 39 - 20

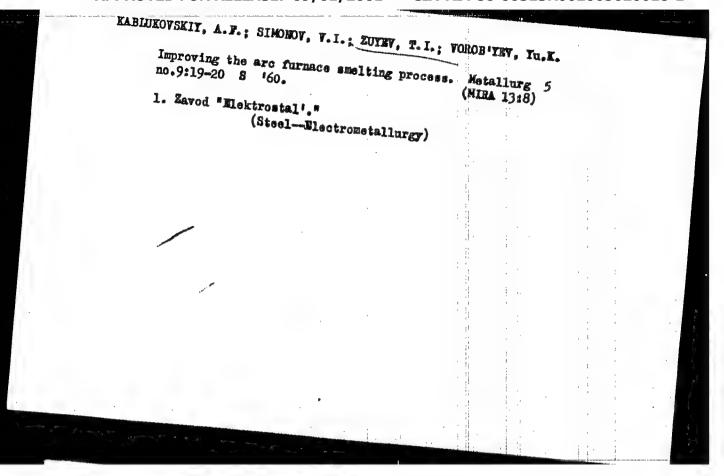
TEXT: When melting UX15 (ShKh15) ball bearing steel in electric arc furnamental and helicity Plant, diffusion deoxidation during the reduction period and holding of the metal under carbide slag takes not less than one hour. Ferrochromium is added to the deoxidized metal 40 minutes after the onset of refining. The carbide slag is converted into white slag 10-15 minutes prior to teeming, and ferrosilicide lumps are supplied to the furnace. Prior to teeming the metal into the ladle, it is deoxidized with aluminum lumps (0.4 kg/tan). The total refining time is 1 hour 40 min - 2 hours 10 min. - A new method was developed to raise the efficiency of 20-ton arc furnaces when melting ShKh15 steel without impairing the quality of the metal. This technology differs from the conventional method as follows: a) partial dephosphorization and melting of the charge are combined by adding lime and ore to the pool at the end of the melting period; b) sufficient degassing of the metal is ensured by a reduced carbon content at the be-

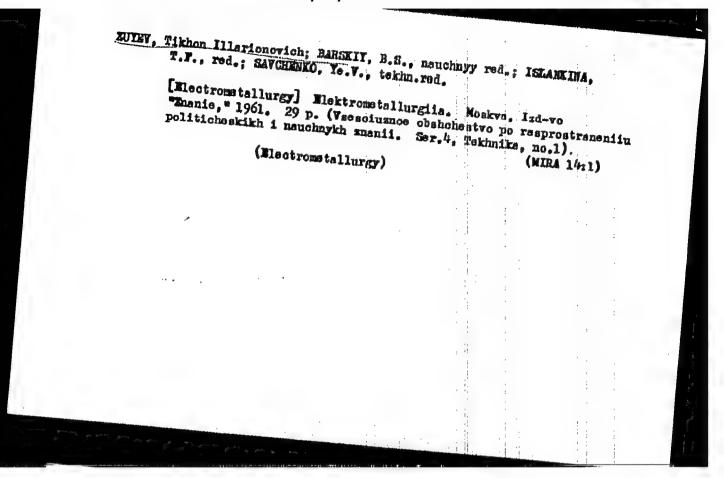
Intensified Melting in Arc Furnaces

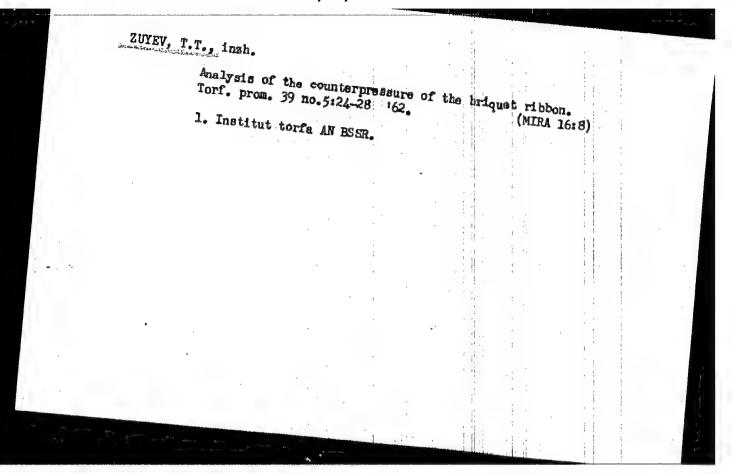
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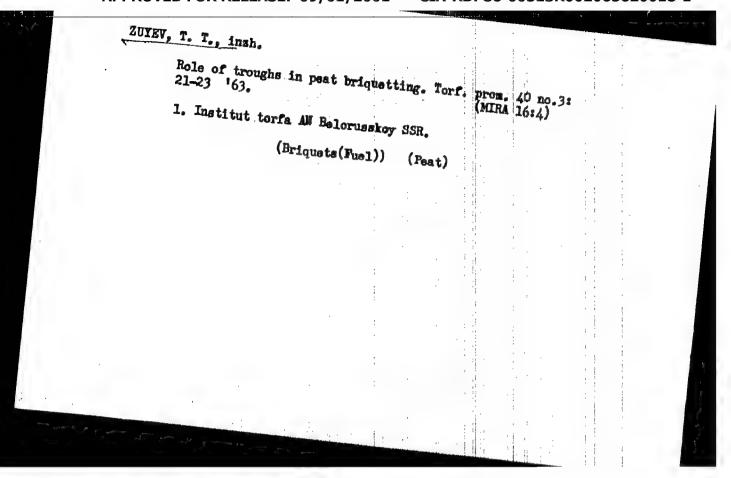
ginning of the oxidizing period and by removing not less than 0.30% carbon during bubbling; c) the metal is preliminary deoxidized at the end of the oxidizing period with refined cast iron containing 4.0 - 4.5% C, 8.0-10.0% Mn and not over 0.030% P in an amount of 7.5-12.5 kg/t; d) additional deoxidizing of the metal prior to the formation of reducing slag with silico-chromium lumps (5.0.6.0 kg/ ton) and aluminum (0.4 kg/ton); e) addition of the main portion of ferrochromium to the bare metal without preliminary diffusion deoxidation; f) deoxidation of the slag with coke powder and 75% ferrosilicide and final deoxidation of the metal with aluminum lumps (0.5 kg/ton) prior to teeming; g) the total reducing time is The contamination of the metal in both cases was almost equal. The melting time with a fresh charge was reduced by 48 min; in remelting of waste it was reduced by 33 min i.e. by 15-19%. The average enonomy in electric power was 47 kwh/ton in remelting and 75 kwh/ton on a fresh charge. Presently the method is used for melting 12xH3A (12KhN3A), 18XHBA (18KhNVA), 40X (40Kh), 3XI (EKhVG) 60C2A (60S2A) and other structural and instrument steels at the Elektrostal Plant. A table is given containing technical and economical data of experimental and conventional melts. ASSOCIATION: "Elektrostal" zavod (Elektrostal Plant)

Card 2/2









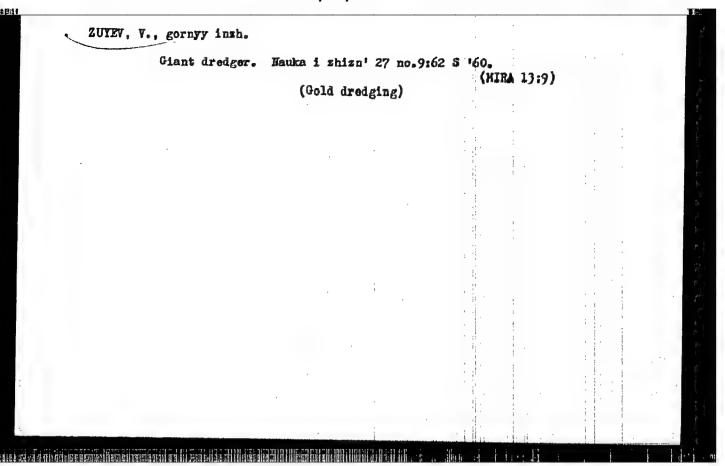
"Mechanization of loading and unloading operations in the transportation of agricultural products" by V.A. Goberman, L.A. Goberman, Reviewed by V. Zuev, A. Korn, V. Ivanov, Avt.transp. 40 no.5161 My '62.

(Farm produce—Transportation)

(Loading and unloading—Equipment and supplies)

(Goberman, V.A.)

(Goberman, L.A.)



107-57-3-41/64

AUTHOR: Zuyev, V. (Chita)

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TITLE: Branding Inscriptions on Plastics. Experience exchange (Vyzhiganiye nadpisey na plastmassakh. Obmen opytom)

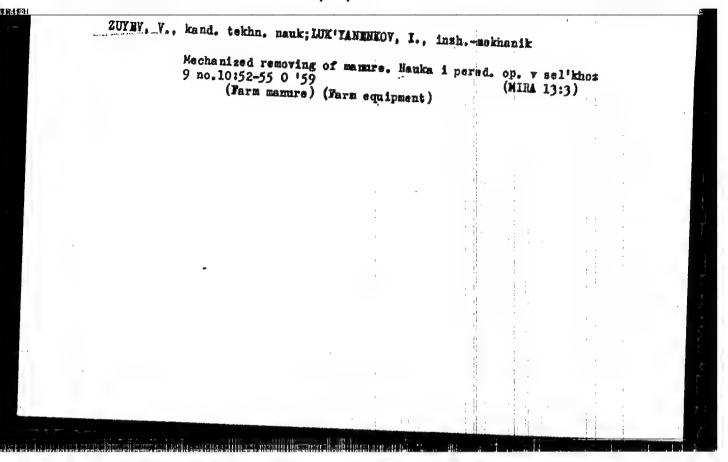
PERIODICAL: Radio, 1957, Nr 3, p 39 (USSR)

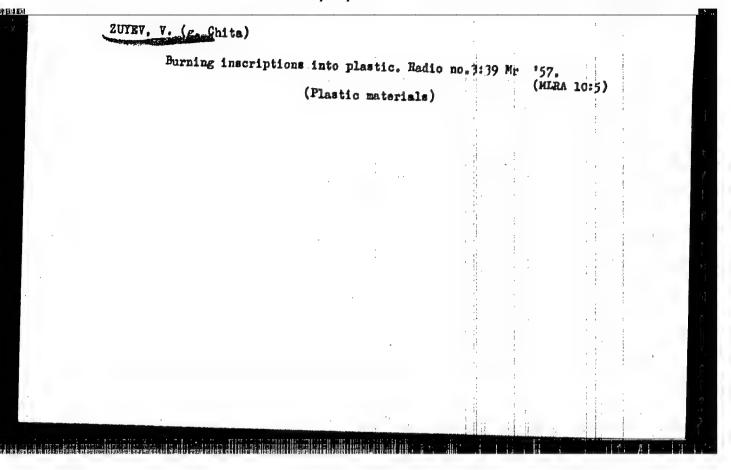
ABSTRACT: A device for branding inscriptions on plastics is suggested which consists of an electric soldering iron whose bit is sawed lengthwise, a character-bearing branding piece which can be inserted into the slit of the bit, and a brass bushing which serves to fasten the branding piece to the bit.

There is one figure in the article.

Card 1/1

Vital activity of Communists.	Grazhd.av.	18 no.	816-7 Ag	61.		
1. Zamestitel nachal nika Politicheskogo upravleniya Grazhdanskogo vozdushnogo flota. (Communist Party of the Soviet Union-Party work) (Aeronautics, Commercial)						
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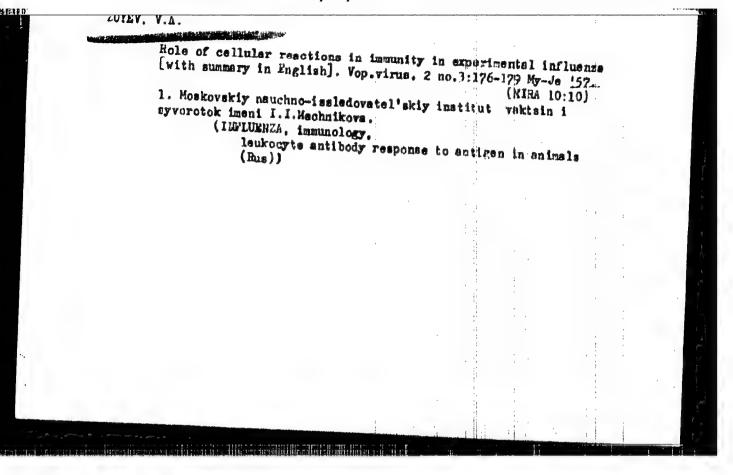
ZIYEV, V., inzh.-konstruktor

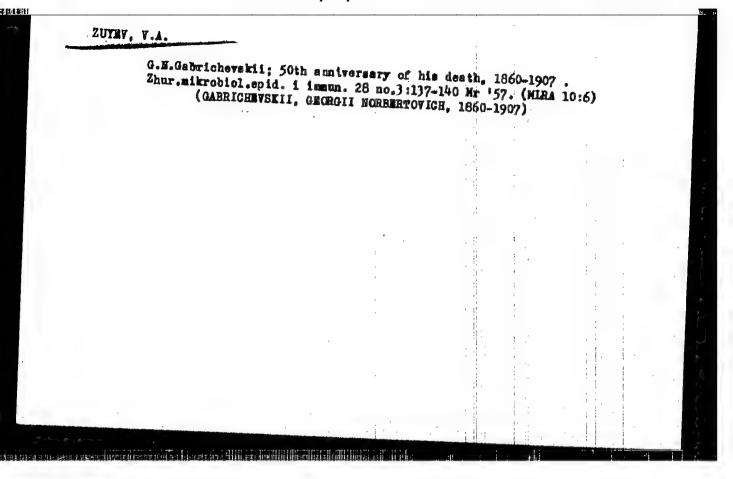
Important subject. Prof.-tekh. obr. 21 no.8;28-29 Ag '64.
(MIRA 17:9)

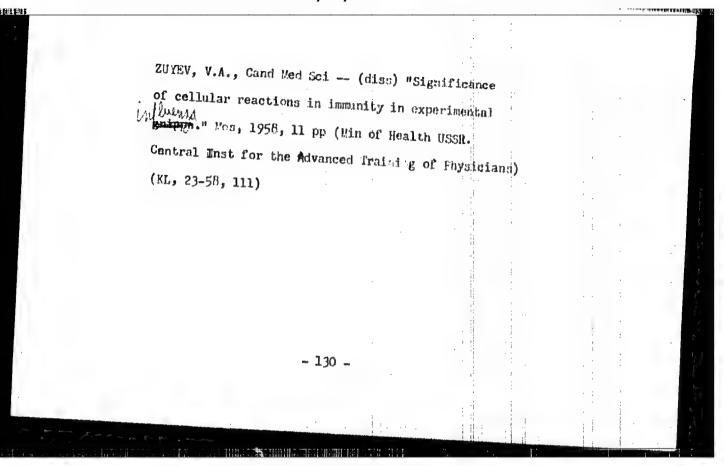
1. Otdel glavnogo mekhanika Moskovskogo avtozavoda im, I.A.Likhacheva.

Effect of anytal-induced sleep on the efficacy of serum therapy of experimental tetamus intoxication in white mice. Authors' abstract. Emur.mikrobiol. (MLRA 6:11)

1. Kafedra mikrobiologii II Moskovskogo meditsinskogo instituta in. I. V. Stalina (Sleep) (Tetamus) (Serum therapy)

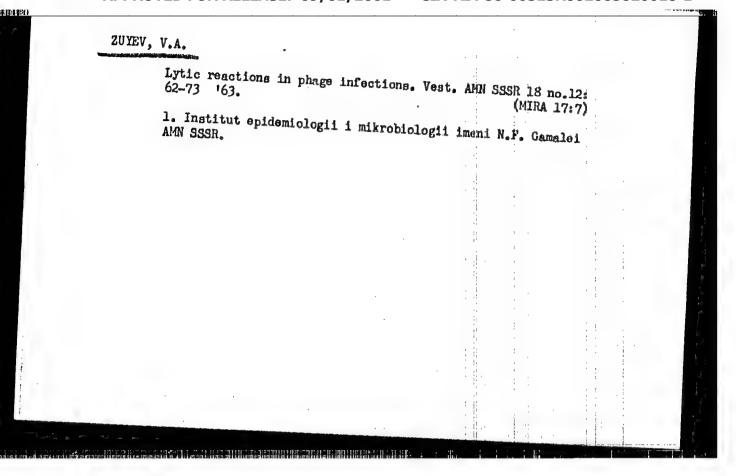






Phagolytic enzyme detectable on solid cultura media. Vop.virus no.61662-667 N.D '63. (MIRA 17:6)

1. Institut epidemiologii i mikrobiologii imeni N.F. Gamalei,
AMN SSSR, Moskva.



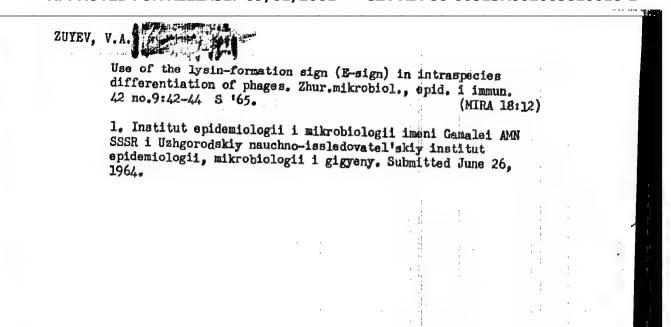
TIMAKOV, V.D.; GOL'DFARB, D.M.; FOMICHEV, Yu.K.; SKAVRONSKAYA, A.G.;

Antiphage and antibacterial activity of the

Antiphage and antibacterial activity of the antitumor preparations dichloroethylamine and its derivatives. Vop. virus no.6:650-662 N-D '63. (MIRA 17:6)

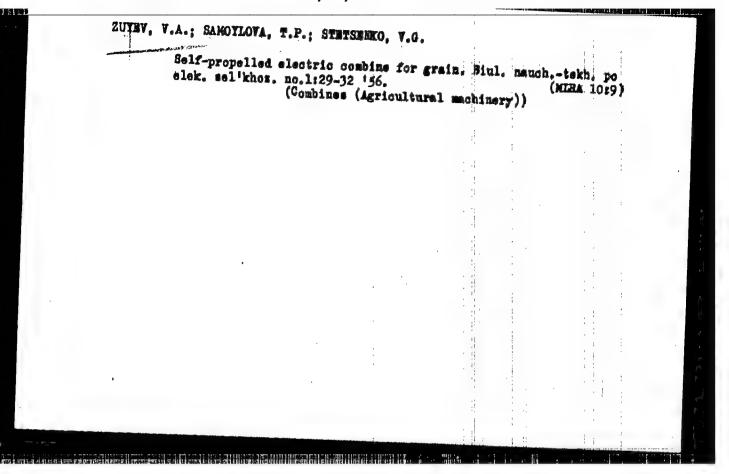
1. Institut epidemiologii i mikrobiologii imeni N.F. Gamalei AMN SSSR, Moskva.

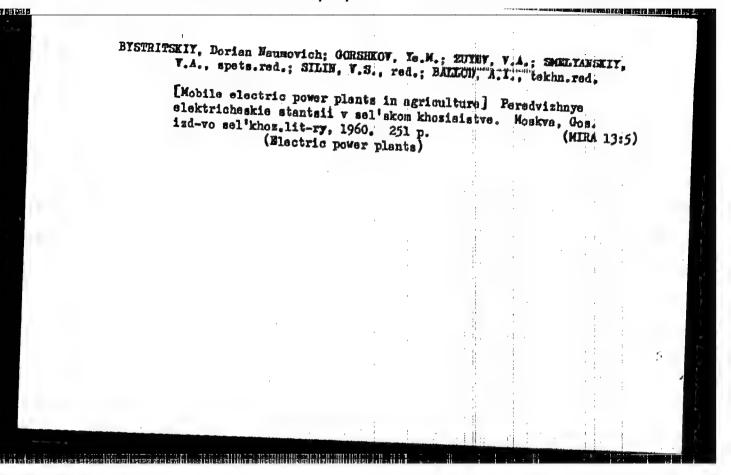
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ACC NR: AP7005204 SOURCE CODE: UR/0185/66/011/011/1176/1183 AUTHOR: Dmytruk, M. L .-- Dmitruk, N. L.; Zuyev, V. O .-- Zuyev, V. A. ORG: Institute of Semiconductors, AN UkrssR, Kiev (Instytut napivprovidnykiv AN URSR) TITLE: Surface photo-emf in semiconductors with short minority carrier lifetimes SOURCE: Ukrayins'kyy fizychnyy zhurnal, v. 11, no. 11, 1966, 1176-1183 TOPIC TAGS: photo emf, semiconductor carrier, minority carrier, carrier lifetime, ABSTRACT: This is a continuation of earlier work (Ukr. fizychn. zh. v. 11, no. 2, 1966) dealing with capacitive photo-emf in GaAs. In the present paper the authors consider theoretically the equivalence of surface photo-emf in semiconductors of this type, which have short minority-carrier lifetimes, and in which the carriers are subject to adhesion and the diffusion length is commensurate with the size of the spacecharge region next to the surface. The problem is solved in the linear approximation, with the potential approximated by a linear function of the coordinates. The distribution of the optically-induced addition to the carrier density, calculated for the typical case of GaAs, turns out to be nonmonotonic, with the majority carries having a Boltzmann distribution near the surface, but the minority carriers having a much more complicated distribution. The calculated value of the photo emf of the depletion layer turns out to depend less on the potential than in the case of Ge or Card

			thank Profes	seor K. B. 3 figures	Tolpygo and 23	for in	terest	In the	work	and f	or us	e-
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	YEV, V.A. [Zuiev, V.O.]; SACHENKO, A.V.; TOLPIGO, K.B. [Tolpyho,K.H.] Kinetics of the photoconductivity of thin semiconductor films having trapping and recombination levels. Ukr. fiz.zhir. 10 no. 11:1176-1186 N *65. (MIRA 18:12)								
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GOL'DIN, M.M.; ZUYEV, V.D.; PINUS, U.A.; FOROMAFEV. V.F.;
CHERLYSHEV, V.Ye.; LIKHIN N.I., inzh., retsenzent;
YARKOV, A.M., inzh., red.

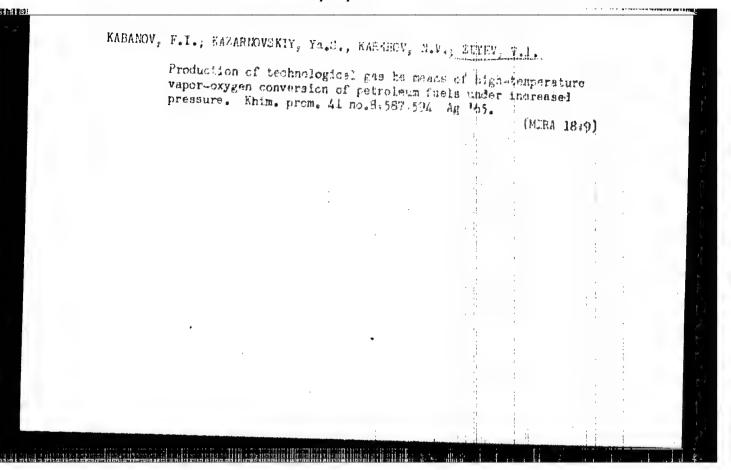
[Adjustment and operation of automatic lines composed of standard units; a handbook] Naladka i eksplustaticis avtomaticheskikh linii iz normalizovannykh uzlev; spravochnoe posobie. Moskva, Mashinostroenie, 1965. 443 p.

(HIRA 18:10)

ZUYEV. Vladimir Alekasyaviah; PESTRYAKOV, A.I., red.; PEVZMER, V.I., tekhn. red.; OKOLELOVA, Z.P., tekhn. red.

[Mechanization of the removal of silage from storehouses]
Mekhanizatsiia vyemki silosa iz khranilishch. Moskva, Seltkhozizdat, 1963. 94 p.

(MIRA 17:1)



KEST ROV, Grant Bogdsnovich; ZUYEV, V.I., retenment; RUMYLYISEV.

[Establishing production standards for woodpain production]

Tekhnicheskoe normirovanie tselliniczne-bumashnogo proizveietwa. Mickva, lesnaia promychiennyst. 1964. 198 p.

(MISA 1811)

KALYUZHNYY, I.T.; SIDOROVA, L.N.; BURMIN, L.; AKTAYEV, S.; TEPLITS, V.V.; ZUYEV, V.N.; POKROVSKAYA, T.I.; KOZHOMKULOV, T.A.; LAVROVA, N.N., prof., red.; ZUBOK, Ya.Z., telchn. red.

[Read this, this is useful] Prochitai, eto polezno. Frunze, 1962. 10 nos. [Botkin's disease] Bolezn' Botkina. 19 p. [Communicable (infectious) diseases in children] Detskie zaraznye (infektsionnye) bolezni. 18 p. [Helminths and the harm they cause to human health] Gel'minty i ikh wred dlia zdorov'ia cheloveka. 26 p. [Work hygiene of the beet grower] Gigiona truda sveklovoda. 12 p. [Hygienic regimen of the schoolchild] Gigienicheskii rezhim shkol'nika. 24 p. [Fungus diseases of the skin] Gribkovye zabolevaniia kozhi. 24 p. [Prevention and treatment of cardiac and vascular diseases] Preduprezhdenie i lechenie boleznei serdtsa i sosudov. 19 p. [Prevention and treatment of rickets] Rakhit, ego preduprezhdenie i lechenie. 8 p. [Old age and longevity] Starost' i dolgoletie. 14 p. [Vitamins and their significance for human health] Vitaminy i ikh znachenie dlia zdorov'ia cheloveka. 22 p. (MIRA 17:3)

ANDRIANOV, V.N.; BEYLIS, M.Ye.; BUDZKO, I.A.; ZAKHARIH, A.G.; ZLATKOVSKIY, A.P.; ZUVEV, V.A.; KRASNOV, V.S.; LISTOV, P.N.; NAZAROV, G.I.; POYARKOV, M.F.; SMIRNOV, B.V.

Nikolai Alekseevich Sazonov; obituary. Elektrichestvo no.5:
(MIRA 16:7)

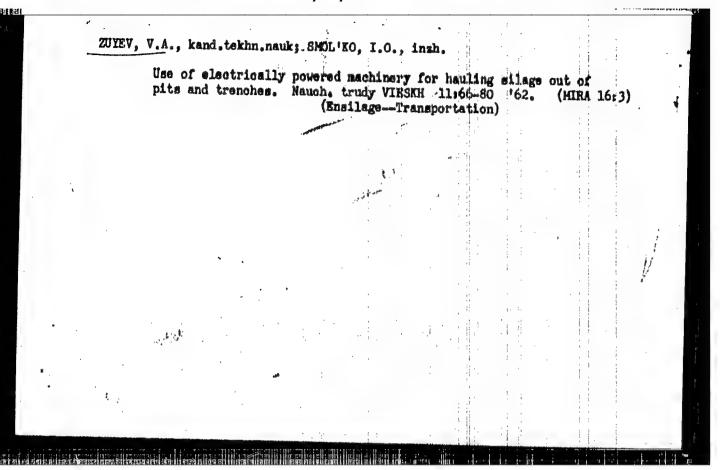
(Sazonov, Nikolai Alekseevich, 1903-)

BLINKIN, Semen Aleksandrovich; ZUYEV, V.A., red.; KOKIN, H.M., tekhn. red.

[Methods of rapid bacteriological diagnosis of intestinal infections] Metody uskorennoi bakteriologicheskoi diagnostiki kishechrykh infektsii. Monkva, Medgiz, 1963, 290 p.

(MIRA 16:12)

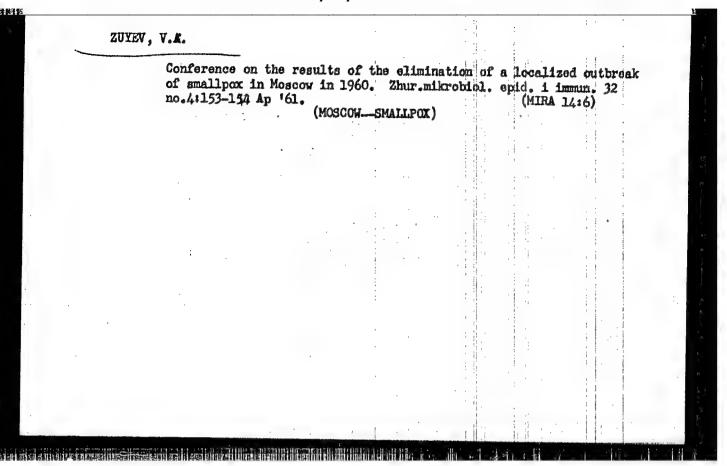
(INTESTINES—MICROBIOLOGY) (INTESTINES—DISEASES)



GERSHANOVICH, V.N.; ZUYEV, V.A.; BUNINA, N.N.; KUZNETSOYA, N.V.; KATS, G.T.

Chemical nature and the mechanism of action of the succinic oxidase inhibitor from Trypanosoma cruzi. Biokhimiia 27 no.2:252-259 Mr-Ap '62. (MIRA 15:8)

1. Institute of Vaccines and Sera, and the State Control Institute of Medical and Biological Preparations, Moscow.
(SUCCINIC OXIDASE) (TRYPANOSOMA CRUZI)



ZUYEV, V.A., kand.tekhn.nauk; SMOL'KO, I.O., inzh.

Using electric losding equipment for removing silage from pit and trench silos. Mekh. i elek. sots. sel'khoz. 19 no.6:23-25 '61. (MIRA 14:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut elektrifikatsii sel'skogo khozyaystva. (Ensilage)

(Electricity in agriculture)

Electron microscope study of parainfluenza viruses. Vop. virus.
5 no.4:490-492 Je-Ag '60.

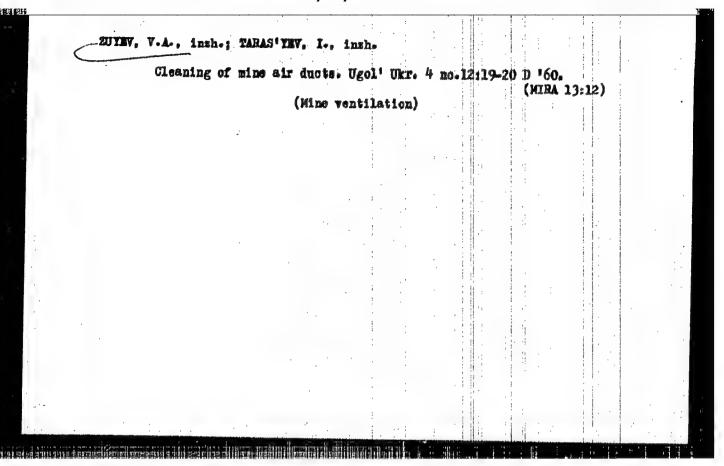
1. Moskovskiy nauchno-issledovatel'skiy institut vaktsin i syvorotok imeni I.I.Mechnikova i Institut virusologii ineni D.I. Ivanovskogo AMS SSSR, Moskva.

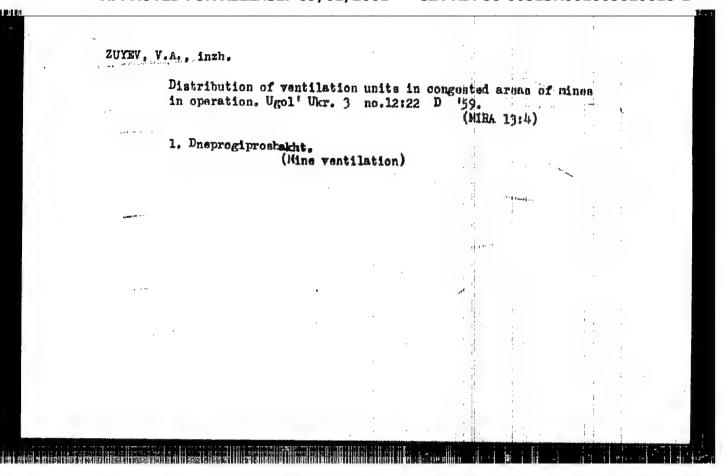
(INFLUENZA VIRUSES)

ZUYEV, V. A.

"Operating Data on the Self-Propelled, Electric Orain Combine." Cand Tech Sci, All-Union Sci Res Inst for the Blectrification of Agriculture, All Union Order of Lenin Acad of Agricultural Sciences imeni V. I. Lenin, Moscow, 1955. (KL, No 8, Feb 55)

SO: Sum. No. 631, 26 Aug 55-Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (14)





KRYLOVA, Margarita Dmitriyevna; ZUTEV, V.A., red.; KUZ'MINA, N.S., tekhn. red.

[Phage typing of bacteria] Fagotipirovanie bekterii. Moekva, Medgiz, 1963. 199 p. (MIRA 16:11)

(BACTERIOPHAGE)

USSR/Virology - Human and Animal Viruses.

Abs Jour : Ref Zhur Diol., No 1, 1959, 574

Author : Zuev, V.A.

Inst : Moscow Scientific Research Institute of Vaccines and

Sera

Title : The Role of Cellular Antibodies in Grippe Immunity.

Orig Pub : Tr. Mosk. n.-i. in-ta vaktsin i syvorotok, 1957, 9,

62-65

Abstract : No abstract.

Card 1/1

- 10 -

SOV/118-59-4-17/25

AUTHOR:

Zuyev, V.A., Engineer

TITLE:

11414

Pneumatic Locomotives for Haulage

PERIODICAL:

Mekhanizatsiya i avtomatizatsiya proizvodstva, 1959,

Nr 4, pp 49-50 (USSR)

ABSTRACT:

Since it is prohibited to use electric locomotives in gaseous fan drifts, haulage under this condition is still not mechanized. In consideration of Western European practice, the author recommends the use of pneumatic locomotives. The Donetskiy filial Giprouglemasha (Donets Branch of the Giprouglemash) has designed a pneumatic locomotive which can pull eight 1 ton mine cars for 600 m with one charge. The pneumatic locomotive works on compressed air at 4 atm. The charging of the compressed air cylinders takes 3 to 4 minutes. Other pneumatic locomotives type "BVD-35" have been imported from Czechoslovakia to speed up the mechanization of haulage in fan drifts of gassy mines of the Tsentral'nyy rayon Donbassa

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Pneumatic Locomotives for Haulage

SOV/118-59-4-17/25

(Central District of the Donbass). The air compressor used is the "3PSK-380" (productivity - 200 cu m per minute; pressure phases - 5; surplus air pressure in the air pipe - from 175 to 200 atm; weight of the compressor plus equipment - 15,300 kg; power source - a synchronous motor of 320 kilowatts and 300 r.p.m.). The BVD-35 pneumatic locomotive has an adhesive weight of 9,000 kg; 6 compressed air cylinders (pressure - 175 atm.); range - 6 km; maximum tractive force - 1,500 kg (minimum from 500 to 700 kg; normal speed - 3 m per second; maximum speed 5 m per second. The Institut Dneprogiproshakht (the Dneprogiproshakht Institute) is planning to use pneumatic haulage for 3 mines of the Donbass kombinat "Stalinugol'" (the Donbass "Stalinugol'" Combine). There are 5 diagrams.

Oard 2/2

CIA-RDP86-00513R002065620018-1 "APPROVED FOR RELEASE: 09/01/2001

ZUYEV, V. A. USSR / Virology - Human and Animal Viruses.

E

Abs Jour: Ref Zhur-Biol., No 9, 1958, 38214.

: Zuev. V. A. Author Inst

: Not given.

: Significance of Cell Reactions in Lamunity of Title

Experimental Influenza.

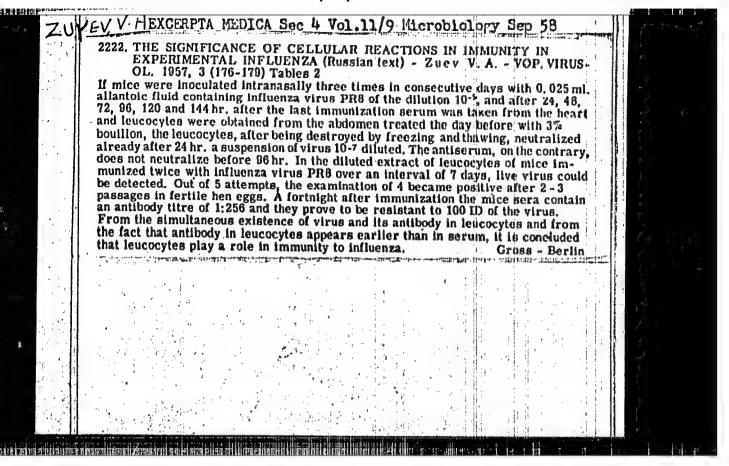
Orig Pub: Vopr. virusologii, 1957, No 3, 176-179.

Abstract: A study was conducted on the capacity of leuco-

cytes to produce antibodies of influenza virus and toward phagocytosis. Antibodies appeared in leucocytes of immunized mice 48-72 hours earlier and at a higher titer than in blood serum. In leucocytes a virus was found which was absorbed in the immunization process and could be isolated from cells, evidently, due to

unstable combination with the antibodies.

Card 1/1



ANDRIANOV, V.N., doktor tekhn.nauk; BERSENNV, Ye.Ye., inzh.; BYSTRITSKIT, D.N., kand.tekhn.nauk; GRREBENIKOV, A.F., kand.tekhn.nauk; GRRESOV, N.A., kand.tekhn.nauk; KURYAVTSEV, I.F., kand.tekhn.nauk; OLMYNIK, N.P., inzh.; OSBTROV, P.A., kand.tekhn.nauk; PODSOSOV, A.N., inzh.; POPOV, S.T., inzh.; PRISHCHEP, L.G., kand.tekhn.nauk; PCHEIKIN, Yu.N., inzh.; RUBTSOV, P.A., kand.tekhn.nauk; RUNOV, B.A., kand.tekhn.nauk; SAVINKOV, K.P., kand.tekhn.nauk; SAZONOV, N.A., prof., doktor tekhn.nauk; SERGETEV, A.S., inzh.; SKYCRTSOV, P.F., kand.tekhn.nauk; SHIRNOV, B.V., kand.tekhn.nauk; SMIRNOV, V.I., kand.tekhn.nauk; TYMINSKIY, Ye.V., inzh.; URVACHEV, P.N., kand.tekhn.nauk; SHTRURMAN, B.A., inzh.; SHCHUROV, S.V., kand.ekon.nauk; RUNOVA, L.M., inzh.; VOL'FOVSKAYA, D.N., red.; NIKITINA, V.M., red.; BALLOD, A.I., tekhn.red.

[Manual on the use of electric power in agriculture] Spravochnik poprimeneniiu elektorenergii v sel'skom khosiaistve. Moskva. Gos. izd-vo sel'khoz. lit-ry. 1958. 606 p. (MINA 11:5) (Electricity in agriculture)

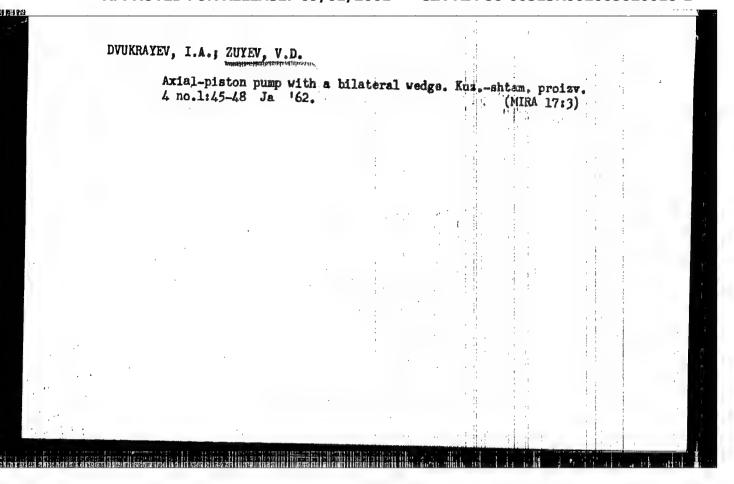
ACC NR. AP5028920 BOURCE CODE: 101/0185/65/010/011/1176/1186 44,55 141 55 149.55 416, 55 AUTHOR: Zuyev, V. O. -Zuyev. V. A.; Sachenko. A Tolloygo, Y: Tolibble. K. B. 69 44,55 ORG: Institute of Semiconductors, All UkrSSR (Instytut napivprovidnykiv AN UkrSSR) 21,44,55 TITLE: Kinetics of photoconductivity of thin semiconductor Layers having surface levels of attachment and recombination SOURCE: Ukrayins'kyy fizychnyy zhurnal, v. 10, no. 11, 1965, 1176-1186 TOPIC TAGS: photoconductivity, semiconductivity, semiconductor carrier, relaxation process ABSTRACT: An investigation was made of the photoconductivity of a memiconductor of finite thickness having attachment and recombination levels but the surface. A general expression for photoconductivity o was derived, with the aid of which the dependence of o on the absorption coefficient and the frequency can be phtained. In deriving o the following assumptions were made: 1) the impurity semiconductor is of the n-type and its donors are totally ionized. There is no attachment in the volume and the nonequilibrium carriers are characterized by the volume lifetime v. 2) In the region of volume charge the distribution of carriers is of quasi-Boltizman type. 3) The additional concentration of holes p_1 in the essential region $x \sim (2-1)$ L_p considerably exceeds equilibrium p_0 . The cases of sinusoidal, rectangular, and deform modulation 1/2 Card

photoconductive photoconductive is known, the carriers of the monoexponential tions of photoconductive carriers of the carrier	considered. as obtained case of a fa- ity is monoe: ity decrease rate of surfice levels is of conductivity on the surface ty. The second	st exchange of a exponential. In is the lifetime ace recombination considerable, the iel with one sur relaxation. On ace, and the other ace, and the can rel. Orig. art.	this case the of the noneques of the noneques of the noneques of the noneques of the case of the case of the characterizer is linked to be attributed has: 3 figures.	with bands, to characterist uilibrium can termined. Who of photocondulare are two east the carrie with the mono to the captures and 36 for	rriers. If teff den the lifetime of artivity is not exponential sec- er recombination i wolar part of the are of minority	of
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GOL DEARB, D.M.; ZUVEY, V.A.; GERSHANOVICH, V.N.

Phage reproduction in spheroplasts of Escherichia doli produced with the help of lytic enzyme of the phage 12. Mikrobiologiia 34 no.42648-652 Jl-Ag *65. (MIPA 18:10)

1. Institut epidemiologii i mikrobiologii imeni N.F. Gamalei AMN SSSR.



KUZNETSOV, M.M.; SHASHKIN, A.S.; ZUYEV, V.D., inzh., retsenzent;
KUNIN, P.A., inzh., red.

[Operation and adjustment of hydraulic systems of machine tools] Ekspluatatsita i naladka gidrosistem metalloreshushchikh stankov. Moskva, Mashinostroenie, 1965. 339 p.

(MIRA 18:4)

ZUYEV. Vasiliy Fedorovich, akademik; RAYKOV, B.Ye., redaktor; FIALKINA, G.A., redaktor; SHAPOSHNIKOVA, A.A., redaktor; GARNEK, V.P., tekhnicheskiy redaktor

[Pedagogical works] Pedagogicheskie trudy. Red., vatup.stat'ia i kommentarii B.E.Baikova. Moskva, Isd-vo Akademii pedagog. nauk, 1956. 146 p. (HIRA 9:10)

1. Deystvitel'nyy chlen Akademii pedagogicheskikh nauk ESFSR (for Raykov)

(Nature study)

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AUTHORS:

Tsozik, 7.P., Henashivin, G.A., and Huyev, V.2.

ITTLE:

Machine for mechanized enamel-olip application to steel

objects

PERIODICAL:

neferativnyy zhurnal, Tekhnologiya mashinnatroyeniya, no. 2, 1405, 199, mostract 28595 (3b. rabdt R.-1. in-ta technol.

mashinostr. Sovnarkhoz Hostovsh. enon. aan. r-na. no. 1,

1960. 9-151

An experimental mechanized merry-go-round type inetallation for enamel-slip application is lescribed on which a simultaneous progressive and rotary motion of workpieces is realized. In the process of progressive motion the workpieces are dipped into a onth with slip. The numper of reversing turns is controlled by means of a pulse-counting relay and the speed of the carriage and rotational speed of ecreptedes are controiled by chokes mounted in the prieumatic system. The slip application to the workpiece surface and the runoff of its excess into the bath wake place under constant preset occitty my securing high-quality products. by means of easily exchangeable guide blocks a dosting can be applied to

Jard 1, 2

Machine for mechanized ...

5/276/65/000/002/030/052 A052/A126

hollow objects of various configuration. The advantages of the installation are: the possibility of a simultaneous enamel application to the inside and outside surfaces of an object, reduction of the primary coat thickness to 0.1-0.11mm, reduction of the covering enamel layer to 0.2 - 0.22mm, improvement of quality, increase of efficiency by over 10%. The possibility of incorporating the installation in a mechanised line for steelware enameling 3.20mm maximum size of pieces) is strussed.

-- Kamionskiy

Abstracter's note: Complete translation.;

Card 2/2

U39R/Cultivated Plants. Fruit Trees. Small Fruit Plants.

M

Abs Jour: Ref Zhur-Biol., No 17, 1958, 77829.

Author : Zuyev, V. I.

Inst Title

: Non-Root reeding of Apple Trees in Murseries.

Orig Pub: Sad i ogorod, 1956, No 6, 75.

Abstract: Yearly spraying of young apple tree sets, once a nonth, with a mixture of aqueous solutions of 5% Pc and 0.75% Nnn for the Rennet Simirenko variety and 1.5% for the Rozmarin variety, conducted by the Department of Fruit and Vegutable Growing of the Tashkent Agricultural Institute in nurseries and the training-experimental farm in 1952-1954, caused an increase of the number of stem shoots on the trunk, thickening of the

Card : 1/2

137

USSR/Cultivated Plants. Fruit Trees. Small Fruit Plants.

M

Abs Jour: Ref Zhur-Biol., No 17, 1958, 77829.

trunk by 1.5-1.6 rm and growth of the set by 12-15% in height. -- A. P. Shcherbakov.

Card : 2/2

000/010/025/082 D222/D301

9,7140 (also 1147)

AUTHOR:

Zuyev, V.I.

TITLE:

Problems in the development of a magnetic drum

storage unit with accelerated readout

PERIODICAL:

Referativnyy zhurnal. Avtomatika i radioelektronika, no. 10, 1961, 29, abstract 10 B188 (V sb. Vychisl. tekhnika, M., Atomizdat, 1960, 24-36)

TEXT: Methods of reducing the readout time in magnetic drum storage units are considered. The method of "rigid" allocation of data requires the programmer to allocate the words on the drum in such a way as to ensure a minimum access time. Because of the complexity of programming this method is not used. The method of multiple access during one revolution enables the reading of instructions and recording of the results, obtained during the previous revolution, to be carried out. A circuit applicable for three and four address instruction systems is given. The disadvantage of this sys-

Card 1/2

31825 S/194/61/000/010/025/082 D222/D301

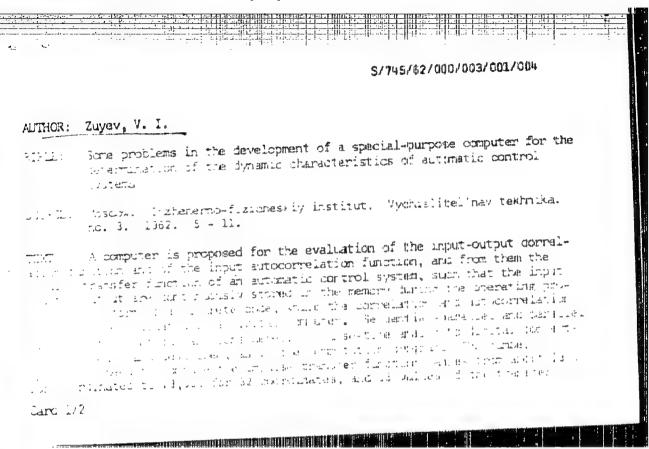
Problems in the development ...

tem compared with the usual one is the increased amount of electronic hardware. A method considered in more detail is the application of several blocks of heads (BH method). Around the drum along the generating elements six BH's are arranged, with 74 heads in each block. Writing is carried out by one block. The remaining five are for reading. The read-write circuits are controlled by a count start track synchronizing the pulses, and six word start tracks (one for each BH). Words containing numbers or instructions are recorded along the circumference of the drum sequentially. The selection of any of the 64 heads of a recording or reading block Abstracter's note: Error in original, read block instead of drum is executed by a matrix circuit. The BH selection circuit ensures that the word is read by the block which is nearest at the time of the instruction. The circuit contains about 200 valves. 6 figures. Abstracter's note: Complete translation

Card 2/2

ALEXPEROY, V.P., insh.; ATOVMYAN, I.O., insh.; ZUYEV, V.I., insh.; KAYUN, Ye.S., kand.tekhn.nauk; KOGAN, B.Ya., kand.tekhn.nauk; KOPAY-GORA, P.H., kand.tekhn.nauk; KULAKOV, A.A., insh.; LEBEDEV, A.M., kand.tekhn.nauk; PAPERNOV, A.A., doktor tekhn.nauk; PEU, POR, D.S., doktor tekhn.nauk; PLOTNIKOV, V.M., kand.tekhn.nauk; HUZSKIY, Yu.Ye., kand.tekhn.nauk; SOLODOVNIKOV, V.V., doktor tekhn.nauk; TOPCHEYEV, Yu.I., kand.tekhn.nauk; ULAHOV, G.M., kand.tekhn.nauk; SHRAMKO, L.S., kand.tekhn.nauk; DOBROGURSKIY, S.O., doktor tekhn.nauk, retsenzent; KAZAKOV, V.A., kand.tekhn.nauk, retsenzent; PETROV, V.V., kand.tekhn.nauk, retsenzent; KHAVKIN, G.A., insh., retsenzent; SOLODOVNIKOV, V.V., prof., doktor tekhn.nauk, red.; VITENBERG, I.M., kand.tekhn.nauk, nauchnyy red.; KOLDAVER, A.I., kand.tekhn.nauk, nauchnyy red.; KHETAGUROV, Ya.A., kand.tekhn.nauk, nauchnyy red.; KOLDAVER, A.I., kand.tekhn.nauk, nauchnyy red.; KOHOVALOV, G.M., red. izd-va; SOKOLOVA, T.F., tekhn.red.

[Fundamentals of automatic control] Osnovy avtomaticheskogo regulirovaniia. Vol.2. [Elements of automatic control systems] Elementy sistem avtomaticheskogo regulirovaniia. Pt 2. [Compensating elements and computer components] Korrektiruiushchie elementy i elementy vychislitel'nykh mashin. Moskva, Gos.nauchno-tekhn. izd-vo mashinostroit.lit-ry. 1959. 453 p. (HIRA 12:4) (Automatic control) (Electronic apparatus and appliances) (Electronic calculating machines)



Some problems in the development ...

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function are obtained within 4 seconds. Reference is made to a paper by T. Coctan and J. Reswick (Trans. ASME, v. 78, n.2, 1856). There are a figures and a tables.

Card 2/2

USSR/Cultivated Plants. Potatoes. Vegetables. Melons

Abs Jour: Ref Zhur - Biol., No 1, 1958, No 1578

Author: V.I. Zuyev
Inst: Not Green
Title: Cultivation of Vegetable Cultures in Golodnaya [Fungry]

Orig Pub: Sots. s.kh. Uzbekistana, 1957, No 5, 66-68

Abstract: No abstract

Card: 1/1

ZUYEV, V.I

PHASE I BOOK EXPLOITATION

SOV/4651

Moscow. Inzhenerno-fizicheskiy institut

Vychislitel'naya tekhnika; sbornik statey (Computer Technique; Collection of Articles) Moscow, Atomizdat, 1960. 54 p. 2,500 copies printed.

Sponsoring Agencies: Ministerstvo vysshego i srednego spetsial'nogo obrazovaniya RSFSR; Moskovskiy inzhenerno-fizicheskiy institut.

Resp. Ed.: Ya.A. Khetagurov, Candidate of Technical Sciences; Tech. Ed.: S.M. Popova.

PURPOSE: This collection of reports is intended for technical personnel working with computers.

COVERAGE: The collection contains reports dealing with some problems of computer technique. The reports of I.O. Atovmyan, V.I. Zuyev, and G.N. Solov'yev discuss various problems concerning a general-purpose discrete-action computer which was designed and is presently under construction at the MIFI, Moskovskiy inzhenerno-fizicheskiy institut (Moscow Engineering Physics Institute). The reports of Ya.A. Khetagurov, I.M. Vitenberg and Ye.P. Zhidkov examine other technical problems of computer design. There are no references.

-Oard 1/4

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002065620018-1"

Computer Technique (Cont.)

SOV/4651

37

Zuyev, V.I. Problems in the Development of Memory Systems Using a Magnetic Drum
The outbon dated Access

The author describes several methods of accelerated accesses from a memory system using a magnetic drum. He considers the following methods as the most during one turn of the drum; and (3) reduction of the storage cycle by using several units of magnetic heads.

Vitenberg, I.M. Some Problems in Designing Control Circuits of Automated

After describing the purpose and functions of modern electrical analog systems, the author discusses the role of automated electrical analogs in linear and non-linear programming, and also in the control of industrial processes. The development of all-purpose and specialized automated electrical analogs and their elements has been conducted under the author's (Scientific Research Institute of Computers) and in the Moscow Engineering Arkhovskiy and others.

Gard 3/4.

KABANOV, F.I.; KARKHOV, N.V.; KAZARNOVSKIY, Ya.S.; OVCHARENKO, B.G.;

Prinimal uchastiye: ZUEV, V.I.

Production of process gas by the high temperature conversion of natural gas at elevated pressure. Khim. prom. no.9:547-555 Ag 162.

(Gas, Natural)

(Gas manufacture and works)

ZUYEV, V. I., CAND AGR SCI, "PEGULIARITIES OF POTATO CROPS ON THE SALINE SOILS OF GOLODNAYA STEPPE." STALINA-BAD, 1960. (ACAD SCI TADZHIK SSR, DEPT OF AGR AND BIO SCI). (KL, 2-61, 215).

-216-

UYEV, USSR / Cultivated Plants. Fruits, Berries. Abs Jour : Ref Zhur - Biologiya, No 13, 1958, No. 53739 Author Zuev, V. I. Inst : Tashkent Agricultural Institute Title : Extra-Root Top Dressing of Fruit Seedlings : Tr. Tashkentsk. s. kh. in-t, 1957, vyp 8, 23-26 Orig Pub : Three year long experiments showed the expediency of Abstract extra-root top dressing of apple tree smedlings by NPK. A 0.7-1% solution of Num and 3-7% solution of the aqueous extract of Po, mixed in equal amounts, were used. This spraying was applied once a month. The growth of the extension sprout increased by 22-27 cm (112-117%). In the growth of the lateral sprout was noticed an increase of 6-12 cm. The thickening of the stem was also observed. -- M. D. Deulina Card 1/1

		Problems come a magnetic (24-36 160-		ems concer netic drum '60.	oncerning the development drum with accelerated a		ent of a me selection.	using . no.1: MIRA 15:3)	
					(Magnetic	memory	(Calculati	ing machines))